

MSC-3000 and MSC-6000, Centrifuge/Vortex Multispin

Centrifuge/vortex Multi-Spin is a product of many year evolution of spin-mix-spin technology that is intended for collecting micro volumes of reagents on the microtube bottom (first centrifugation spin), following mixing (mix) and collecting the reagents again from the walls and cover of the microtube (second spin). We named this repetitive algorithm of operation that is aimed at reducing the mistakes during sample preparation in PCR analysis a "sms-algorithm".

Multi-Spin is a fully automatic device for reproducing sms-algorithm for 12 tubes at one time, that allows saving time considerably. A must-have instrument for PCR and DNA analyses.

Multi Spin is four devices combined in one:

1. Centrifuge — Maximum RCF:
MSC-3000: up to $800 \times g$
MSC-6000: up to $2350 \times g$
2. Vortex (3 mixing modes — **soft, medium, hard**; regulated time; Vortexing regulation timer 1–20 sec)
3. Centrifuge/vortex;
4. SMS-cycler for realization of the "sms-algorithm".

MSC-6000



MSC-3000



2 x  Both product video is available on the website

Comparison of FVL-2400N, MSC-3000 and MSC-6000

Multi-Spin allows considerable time saving compared to Combispin by automatically performing cycling program of sample mixing and spinning according to the set "Spin-Mix-Spin" cycle for 12 microtubes simultaneously.

FVL-2400N



MSC-3000



MSC-6000



Specifications:	FVL-2400N	MSC-3000	MSC-6000
Speed range max.	2800 rpm	3500 rpm	6000 rpm
RCF max.	$700 \times g$	$800 \times g$	$2350 \times g$
Number of tubes vortexing	1 individually	12 simultaneously	
Time for completing "Spin-Mix-Spin" cycle:			
for 2 microtubes	60 sec	25 sec	15 sec
for 12 microtubes	5–6 min	1 min 30 sec	1 min
for 100 microtubes	60 min	15 min	10 min
Unit price ratio	1 x	1.6 x	1.7 x

Specifications:		
Model	MSC-3000	MSC-6000
Speed regulation range (increment 100 rpm)	1000–3500 rpm	1000–6000 rpm
RCF max.	800×g	2350×g
Spin timer	1 sec–99 min	1 sec–30 min
Mixing strength	Soft, medium, hard	
Mixing time	0–20 sec (increment 1 sec)	
SMS-cycle regulation	1–999 cycles	
Display	LCD, 2 × 16 signs	
Safety	Autostop at open lid	Lid lock
Overall dimensions (W × D × H)	190 × 235 × 125 mm	
Weight, not more	2.5 kg	
Input current/power consumption	12V, 11 W (0.9 A)	24V, 24 W (1 A)
External power supply	Input AC 100-240 V 50/60Hz, Output DC 12 V	Input AC 100-240 V 50/60Hz, Output DC 24 V

Rotor R-1.5



Units are supplied with 2 standard rotors:

- 1 R-1.5 for 12 × 1.5 ml microtubes;
- 2 R-0.5/0.2 for 12 × 0.5 ml and 12 × 0.2 ml microtubes;

Other types of rotors are available on request, including rotor for strips 3 4 5

Catalogue number:

MSC-3000 with R-1.5, R-0.5/0.2	BS-010205-AAN
MSC-6000 with R-1.5, R-0.5/0.2	BS-010211-AAL

Interchangeable rotors for MSC-3000 and MSC-6000

Rotor	Description	Capacity	Type	Catalogue number
1 R-0.5/0.2	12 × 0.5 ml and 12 × 0.2 ml microtubes	24	Standard	BS-010205-BK
2 R-1.5	12 × 1.5 ml microtubes	12	Standard	BS-010205-AK
3 R-2/0.5	8 × 2.0 ml and 8 × 0.5 ml microtubes	16	Optional	BS-010205-CK
4 R-2/0.5/0.2	6 × 2.0 ml, 6 × 0.5 ml and 6 × 0.2 ml microtubes	18	Optional	BS-010205-DK
5 SR-16	Two 8-section strips for 0.2 ml microtubes	16	Optional	BS-010202-AK

1 R-0.5/0.2



2 R-1.5



3 R-2/0.5



4 R-2/0.5/0.2



5 SR-16

